

REMARKS

Claims 1-8 are in the application and claims 1, 2, 3 and 8 have been amended. The rejection of claim 1 under 35 U.S.C. 112 has been noted and corrected. The claim objection regarding claim 1 at line 8 the limitation “said cup base side” has been deleted.

Claims 1-8 have been rejected under 35 U.S.C. 103(a) as unpatentable over Eeles (3,213,951)..

EELES (3,213,951)

Eeles has some features similar to the applicants’ cup-shaped drill head, however, the significant feature of the cup base having a variable curvature is not disclosed or suggested in the reference.

Eeles discloses the cup base 21 as a dome 21. There is no further description of the cup base, only that it is a dome. The Webster New Collegiate Dictionary has a number of descriptions of a dome but the only significant one is that a dome is a large hemispherical roof or ceiling. A hemisphere has only a single radius of curvature.

The applicant notes that a dome is only a part of a sphere and a sphere always has a constant curvature. In the applicants’ arrangement the essential

feature is the variable curvature of the cup base. There is no indication the dome in Eeles has a variable curvature. The reference explains in detail the relationship of the curved surfaces of the interior surface portion 17 and the complementary surface 18, but there is no description of the surface of the dome.

Claim 1 has been amended to disclose clearly that the variable curvature is in the cup base not in the surfaces adjoining the cup base.

It is therefore respectfully submitted that claims 1-8 are allowable and a favorable action is solicited.

Respectfully submitted,



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Date: December 1, 2005

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